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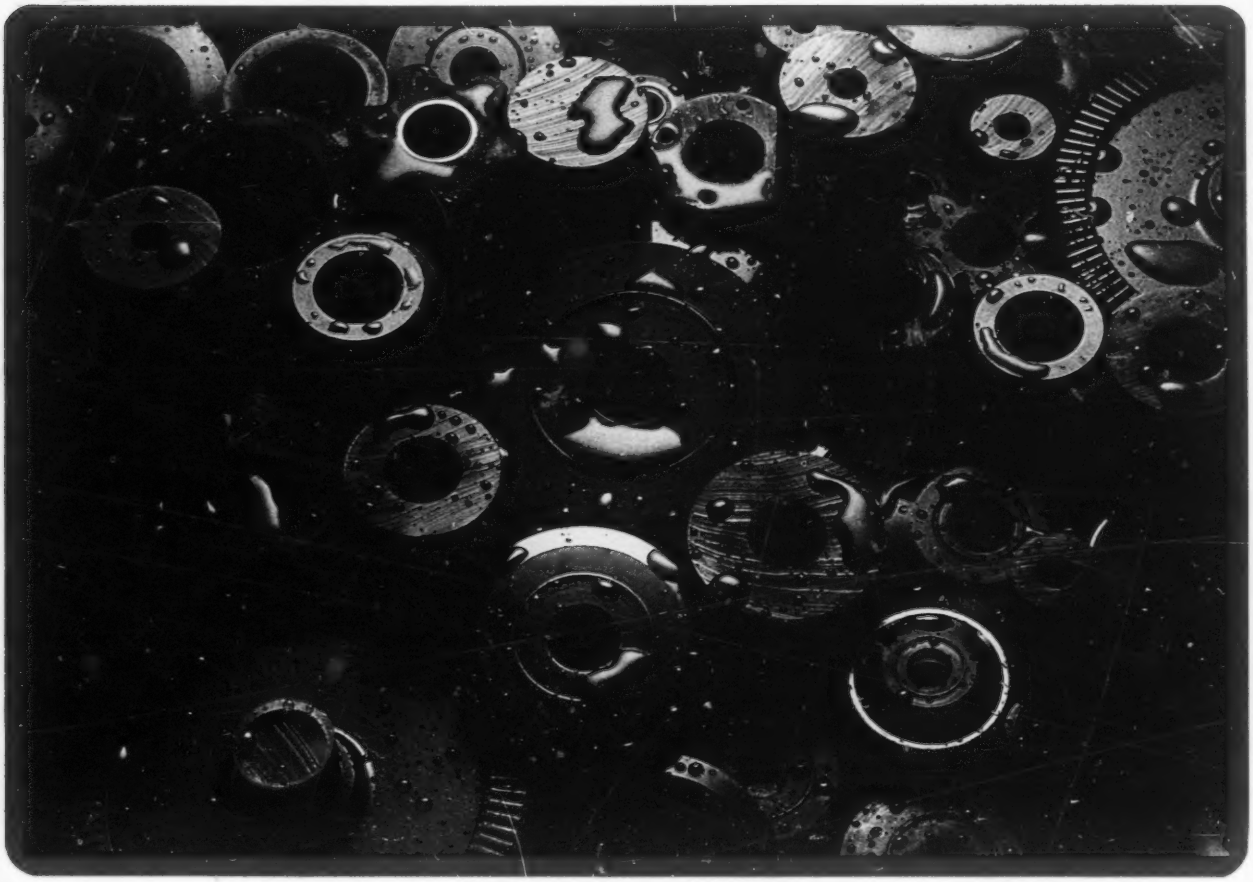
9/17/87

RubberWorld

The technical service magazine for the rubber industry

Volume 196, No. 6 September 1987



What polyurethane? Where?

The effects of crosslinking on the dynamic mechanical properties of urethanes

Comparisons of methods of state-of-cure determination

Compounding ingredients price list

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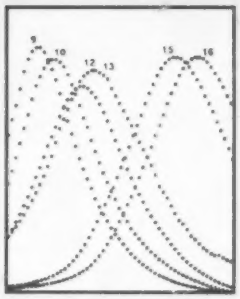

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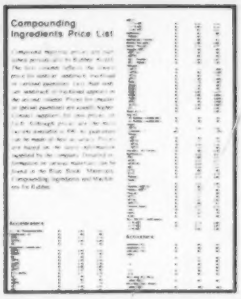

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by Jon Menough, contributing technical service editor. This month's column looks at REP-NET, a system developed to monitor critical processes from several pieces of equipment at one time and provide accurate information in SPC formats on these processes.

15 Urethane Forum: Thermoplastic polyurethane/rubber
by Costas Georgacopoulos, Dow Chemical. This article reviews blends of the thermoplastic SIS/SBS rubbers with thermoplastic polyurethanes and discusses property improvements and applications.

21 What polyurethane? Where?
by Dr. Ronald W. Fuest, Uniroyal Chemical Company. The author presents a macro guideline to the types of PU elastomers that are available, the kinds of physical and environmental resistance properties they have, and the typical applications that each will fulfill.

27 The effects of crosslinking on the dynamic mechanical properties of urethanes
by Walter M. Madigosky, Naval Surface Weapons Center, Silver Spring, MD. This article examines such dynamic properties as tensile modulus, the loss tangent and the glass-rubber transition.

30 Comparison of methods of state-of-cure determination
by R.L. Warley and R.J. Del Vecchio, Lord Corp. The authors explore methods proposed as state-of-cure measurements, such as physical property testing, differential scanning calorimetry, solvent swell and Mooney-Rivlin equilibrium modulus.

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Business Briefs

BFGoodrich was awarded a $758,400 contract by the **Army** to supply 3,000-gallon collapsible fabric tanks to haul drinking water.

Financial statements

Ausimont reported second quarter net income of $15.3 million on sales of $191.9 million.

RMA rubber report through May
(figures expressed in metric tons)

	YTD 1987	YTD 1986	% change
Total new rubber			
New rubber available	1,394,622	1,313,058	6.21
Imports	482,613	468,693	2.97
Exports	208,433	162,195	28.51
Apparent consumption	1,176,844	1,126,081	4.51
Total natural rubber			
Imports	360,679	350,928	2.75
Exports	15,089	17,537	-13.96
Apparent consumption	341,526	329,925	3.52
%total new rubber	29.02	29.29	
Total synthetic rubber			
Production	912,009	844,365	8.01
Imports	122,034	117,765	3.63
Exports	193,344	144,658	33.66
Apparent consumption	835,317	796,156	4.92
Total SBR			
Production	354,769	321,315	10.41
Imports	35,942	46,461	-22.64
Exports	74,224	39,571	87.57
Apparent consumption	322,102	320,589	.47
Total nitrile			
Production	29,709	26,784	10.92
Imports	5,785	5,007	15.54
Exports	5,497	4,273	28.64
Apparent consumption	27,855	26,896	3.57
Polybutadiene			
Production	154,653	150,176	2.98
Imports	37,501	24,188	55.04
Exports	27,460	9,607	185.83
Apparent consumption	162.724	151,353	7.51
Ethylene-propylene			
Production	108,083	97,802	10.51
Imports	2,604	1,782	46.13
Exports	20,233	19,449	4.03
Apparent consumption	84,977	79,050	7.50
Butyl, polychloroprene, polyisoprene, silicone and other synthetic elastomers			
Production	264,795	248,288	6.65
Imports	40,202	40,327	-.31
Exports	65,930	71,758	-8.12
Apparent consumption	237,661	218,267	8.89